



Michigan Flu Focus

Weekly Influenza Surveillance Report

May 13, 2022

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Week Ending May 7, 2022 | WEEK 18

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Data provided in this report are preliminary and will be updated as additional data is received

Updates of Interest

On May 11th, the Michigan Department of Agriculture and Rural Development (MDARD) announced [HPAI A\(H5\) detection in Michigan's first commercial poultry flock in Muskegon county](#). CDC considers the risk to the public from HPAI viruses to be low.

MDHHS has developed a set of guidelines and tools for health monitoring of potentially exposed people. Please visit www.michigan.gov/cdinfo, under "Communicable Diseases (A-Z)," Influenza topic.

Seasonal Flu Vaccination Coverage

Michigan's goal is to vaccinate **4 million** residents during the 2021-2022 flu season.

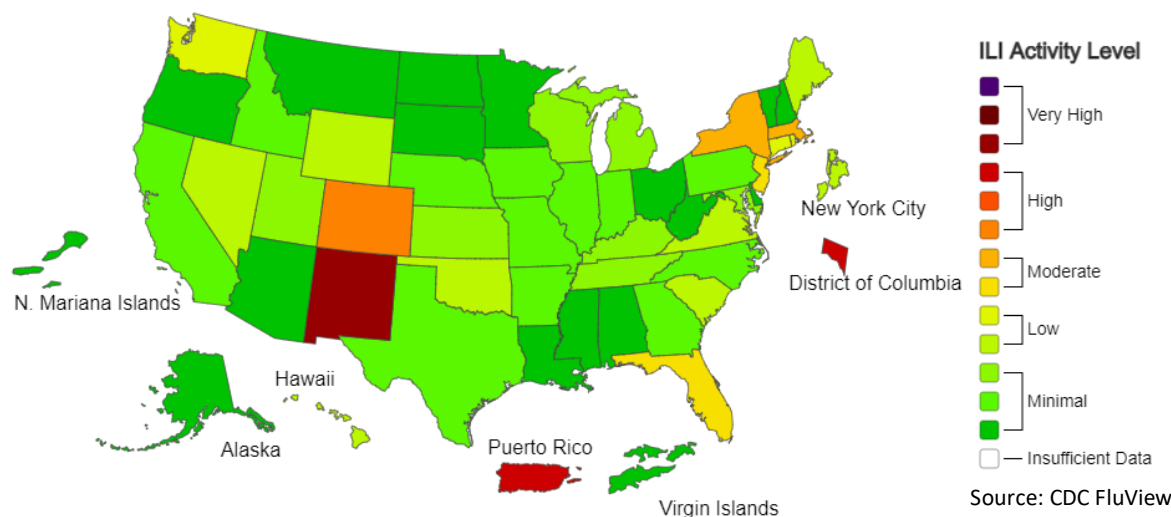
As of **April 30, 2022** there have been **3,306,199** doses administered (**82.7%** towards goal) for the 2021-2022 flu season.

Please visit the Flu Vaccination Dashboard at www.michigan.gov/flu for more info.

Outpatient Respiratory Illness Activity Map Determined by Data Reported to ILINet

This system monitors visits for respiratory illness that includes fever plus a cough or sore throat, also referred to as ILI, not laboratory confirmed influenza and may capture patient visits due to other respiratory pathogens that cause similar symptoms.

2021-22 Influenza Season Week 18 ending May 07, 2022



Note: This map represents U.S. ILI activity levels reported to ILINet. The display used in past seasons showing Geographic spread of influenza has been suspended for the 2021-2022 influenza season

Influenza-associated Pediatric Mortality

Nationally, 24 influenza-associated pediatric deaths have been reported thus far for the 2021-2022 flu season.

One (1) pediatric death (A/H3 virus) has been confirmed by MDHHS for the 2021-2022 flu season to date.

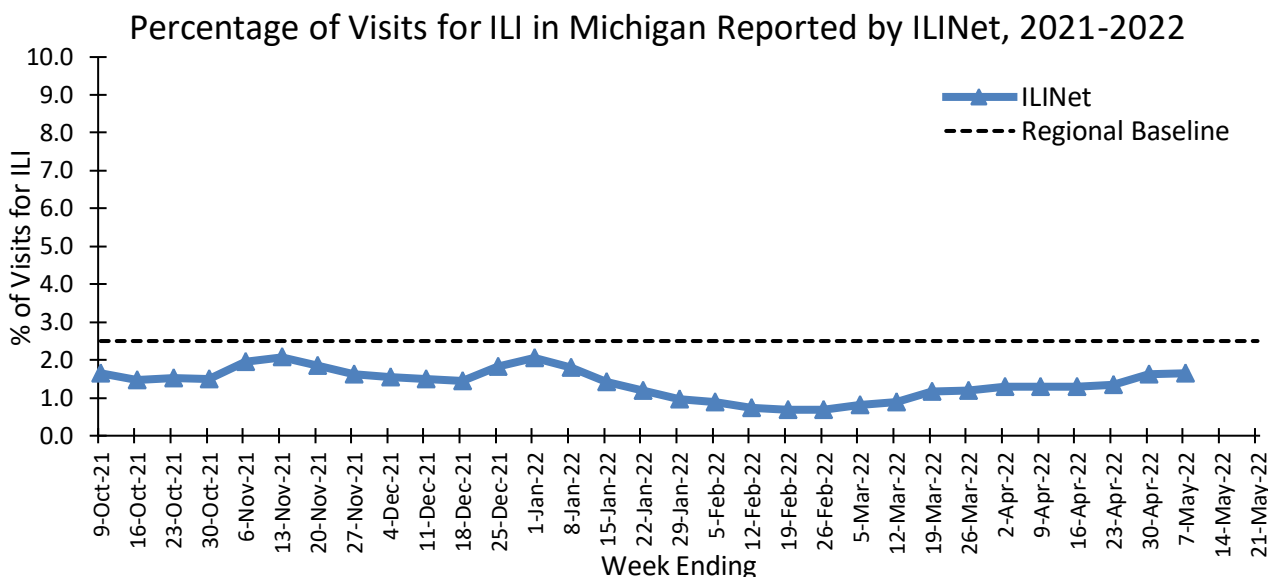
U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

Michigan participates in ILINet, a collaborative effort between the CDC, state and local health departments, and volunteer sentinel clinicians as part of Michigan's influenza surveillance. ILINet provides data on the total number of outpatient visits to health care providers seen for any reason and the number of those patients with influenza-like illness (ILI[‡]). Participating Michigan emergency department and urgent care facilities send syndromic data voluntarily in near real-time to the Electronic Surveillance System for the Early Notification of Community Based Epidemics (ESSENCE). Discharge diagnosis and chief complaint data elements are used to determine whether visits meet the ILI case definition. One-hundred and forty-one (141) Michigan facilities contributing data to ESSENCE were validated and enrolled in ILINet for the 2021-2022 flu season.

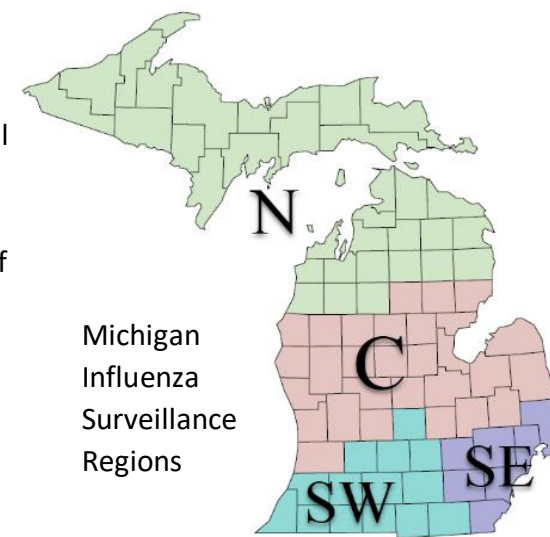
[‡]ILI is defined as fever (>100°F) and a cough and/or a sore throat (new definition for the 2021-2022 season).

Number of Reports and ILI % by Region during this time period:

Region	C	N	SE	SW
No. of Reporters (123)	39	17	48	19
ILI %	0.9	0.8	2.3	0.8



Note: ILINet monitors visits for ILI (fever and cough and/or sore throat) and may capture patient visits due to other respiratory pathogens that cause similar symptoms.



Michigan ILI Activity: **1.6%**

(Last week: 1.6%)

Regional Baseline*: 2.5%

A total of 1,234 patient visits due to ILI were reported out of 75,357 outpatient visits for Week 18.

*Regional baseline is determined by calculating the mean percentage of patient visits due to ILI during non-influenza weeks for the previous three seasons and adding two standard deviations.

National Surveillance

In the United States, **2.3%** of outpatient visits were due to ILI (Last week: 2.2%)

This is **below** the national baseline of 2.5%

Become an ILINET provider!

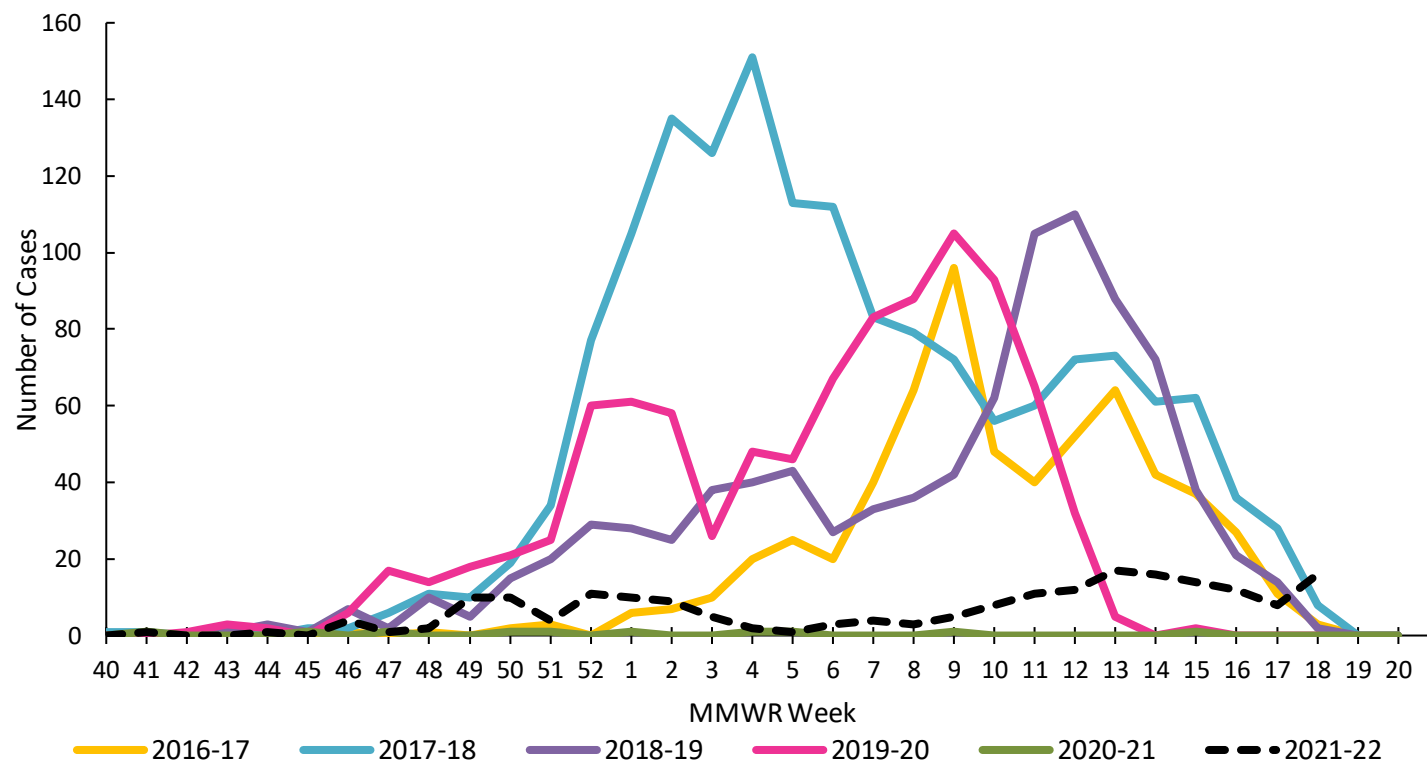
Contact Shelly Doeblar at DoeblarM@michigan.gov

Influenza Hospitalization Surveillance Project (IHSP)

The CDC's Influenza Hospitalization Surveillance Network (FluSurv-NET) provides population-based rates of laboratory-confirmed influenza-associated hospitalizations from October 1st through April 30th each year. Michigan participates as an IHSP state in FluSurv-NET for Clinton, Eaton, Genesee, Ingham, and Washtenaw Counties.

There were 16 (2 pediatric, 14 adult) influenza-associated hospitalizations reported to MDHHS for the IHSP during this time period. Since October 1st, 200 (45 pediatric, 155 adult) influenza-associated hospitalizations were reported in the catchment area for the 2021-2022 season.

IHSP Cases, 2016-2017 through 2021-2022



Washtenaw County was added in the 2017-2018 season

Join the Influenza Sentinel Hospital Network (ISHN)!

What is it? ISHN is a group of hospitals in Michigan that voluntarily report weekly aggregate counts of influenza positive inpatients to assist MDHHS with statewide influenza surveillance.

How it works: As a participating hospital in the ISHN, you would complete a brief Survey Monkey every week containing:

- Number of hospitalizations with a positive influenza test by age group during that time period
- The total number of hospitalizations due to any condition during that time period (if available)

The data you provide will assist public health in recognizing changes in the age or geographic distribution of influenza in this population.

If your facility is interested in participating or would like more information, please contact Sue Kim (KimS2@michigan.gov)

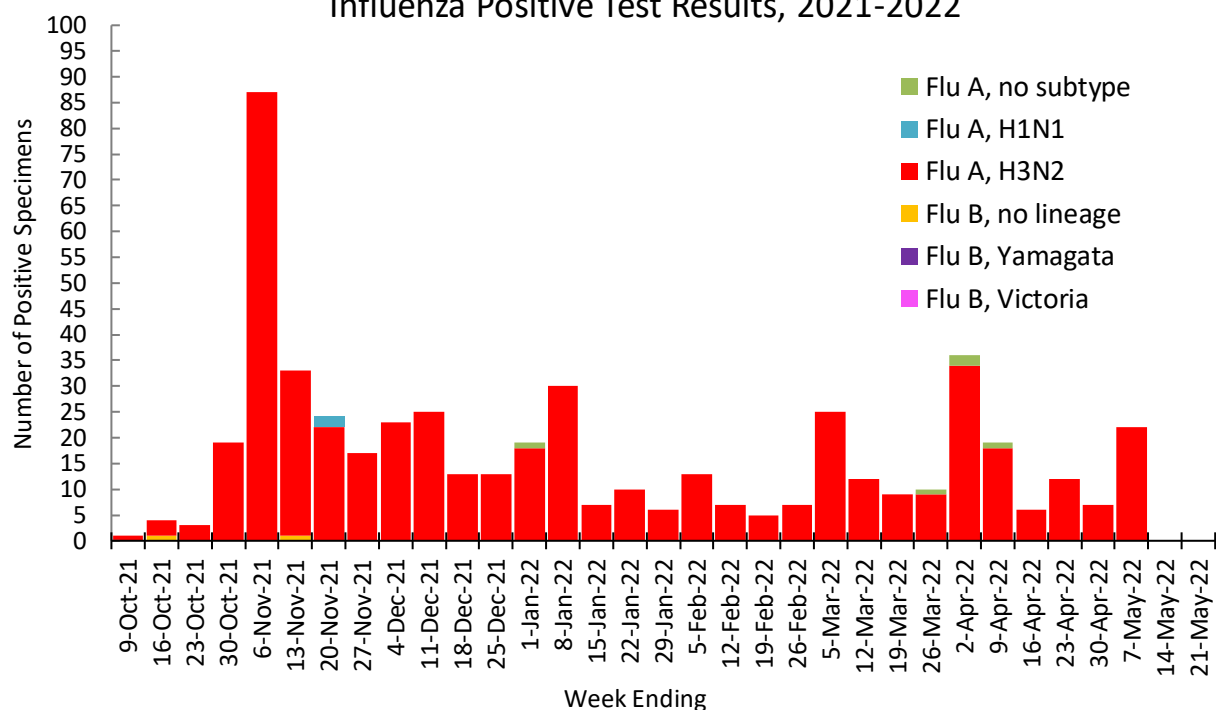
MDHHS BOL Virology Laboratory Data

There were 22 (2C, 0N, 10SE, 10SW) positive influenza results reported by the MDHHS Bureau of Laboratories (BOL) during this time period. Positive flu results for the 2021-2022 season are summarized below.

of Positive Influenza Virus Results by Region

	C	N	SE	SW	Total
H1N1	0	0	2	0	2
H3N2	158	22	227	108	515
Infl B	0	0	2	0	2
Total	158	22	231	108	519

Influenza Positive Test Results, 2021-2022



Note: Based on Specimen Collection Date. Flu B lineage data will be reported based on MDHHS BOL testing runs and will be backtracked into this graph

Michigan Sentinel Clinical Lab Network Respiratory Virus Data

Seven (7) sentinel clinical labs (1SE, 1SW, 4C, 1N) reported for the week ending 05/07/2022

SE Region	
Influenza A:	moderate – high
Influenza B:	no activity
Parainfluenza:	slightly elevated
RSV:	slightly elevated
Adenovirus:	low
hMPV:	elevated
Central Region	
Influenza A:	elevated
Influenza B:	sporadic – low
Parainfluenza:	low
RSV:	sporadic – low
Adenovirus:	low – slightly elevated
hMPV:	low
SW Region	
Influenza A:	elevated
Influenza B:	no activity
Parainfluenza:	sporadic – low
RSV:	low
Adenovirus:	sporadic – low
hMPV:	low
North Region	
Influenza A:	low
Influenza B:	sporadic
Parainfluenza:	sporadic
RSV:	no activity
Adenovirus:	sporadic
hMPV:	low

There were 3 (1C, 0N, 2SE, 0SW) influenza outbreaks reported to MDHHS during this time period. Influenza outbreaks for the 2021-2022 season are summarized below.

of Influenza Outbreaks by MI Region

Facility Type	C	N	SE	SW	Total
Schools: K-12 & College	4	2	3	2	11
Long-term Care / Assisted Living Facility	11	2	3	3	19
Healthcare Facility	0	0	0	0	0
Daycare	0	0	0	0	0
Homeless Shelter	0	0	0	0	0
Correctional Facility	1	0	0	0	1
Other	1	0	0	0	1
Total	17	4	6	5	32

Did you know?

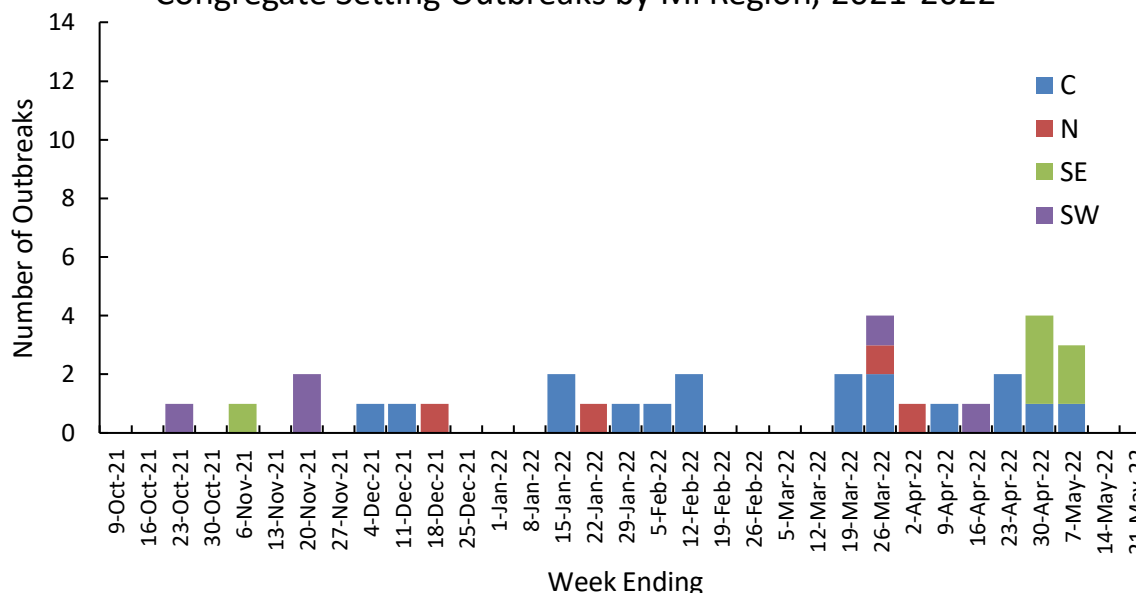
Congregate setting outbreaks of viral respiratory illness are required to be reported to your local health department? See:

- [Influenza Guidance for Healthcare Providers](#)
- [Guideline for influenza and Respiratory Virus Outbreaks in Long-Term Care Facilities](#)

Note: Data are reported on laboratory confirmed influenza outbreaks. For information on outbreaks exclusively associated with COVID-19, please visit the MDHHS Covid-19 webpage located under Additional Resources on the last page. Non-flu, non-COVID outbreaks and ILI outbreaks without confirmatory flu testing are not reported in the table and graph.

Mixed outbreaks with confirmed flu (including COVID) will be included in the table and graph. There were 0 mixed outbreaks reported during Week 18.

Congregate Setting Outbreaks by MI Region, 2021-2022



Influenza Vaccination Associated with Lower Risk of Heart Complications in Older Adults

Centers for Disease Control and Prevention (CDC) [reports](#) that 70-85% of flu-related deaths and most flu-related hospitalizations occur in people aged 65 and older in the United States. Severe complications in this age demographic include pneumonia, organ failure, respiratory tract infection leading to sepsis, and myocarditis.

Flu vaccination is shown to lower the risk of heart complications in high-risk patients, according to data published recently by [Jama Network Open](#). The meta-analysis looked at six clinical trials including 9001 adults, mean age 65.5 years, and randomized to influenza vaccination versus matching placebo or standard care. Results show the flu vaccine was associated with a lower risk of composite cardiovascular events (3.6% vs 5.4%; RR, 0.66; 95% CI, 0.53-0.83; $P < .001$).

The study concluded that receiving the flu vaccine was associated with a 34% lower risk of major adverse cardiovascular events. Individuals with recent acute coronary syndrome showed a 45% lower risk. Providers are urged to counsel high-risk and older patients on the cardiovascular benefits of the flu vaccine.

As of May 7, 2022, Centers for Disease Control and Prevention (CDC) shows influenza activity continues to increase in some areas of the United States. The most common influenza virus detected is A(H3N2). CDC recommends annual influenza vaccination for everyone aged 6 months and older and urges providers to continue to offer vaccination while influenza remains present in local communities. Flu vaccines are widely available. Individuals can find a local vaccination location at: <https://www.vaccines.gov/>.

Influenza News Blast

- [65+ Flu Defense](#)
- [Flu shots: Especially important if you have heart disease](#)
- [CDC Study Shows Flu Vaccination Prevents Severe Flu Illness in U.S. Children](#)
- [Flu Disparities Among Racial and Ethnic Minority Groups](#)
- [Why Black and Hispanic Seniors Are Left With a Less Powerful Flu Vaccine](#)
- [World Health Organization \(WHO\) Influenza Update](#)
- [Mandatory Influenza Vaccination for Healthcare Personnel Honor Roll](#)

Additional Resources

- [MDHHS Influenza Webpage](#)
- [MDHHS Bureau of Laboratories \(BOL\) Webpage and Test Request Forms](#)
- [Influenza Surveillance in Michigan](#)
- [Immunization Action Coalition: Ask the Experts - Flu](#)
- [CDC Healthcare Professionals Flu Toolkit](#)
- [CDC FluView Weekly Report](#)

View Michigan Flu Focus Report archives [here](#).

Influenza Burden Estimates

The Centers for Disease Control and Prevention (CDC) have released [preliminary in-season burden estimates](#) for the 2021-2022 flu season.

CDC estimates that, from **October 1, 2021 through May 7, 2022** there have been:

- **6.4 million – 11.0 million** flu illnesses
- **3.0 million – 4.9 million** flu medical visits
- **65,000 – 130,000** flu hospitalizations
- **4,000 – 11,000** flu deaths

Note: CDC was not able to calculate the cumulative burden of flu for the 2020-2021 flu season, due to historically low numbers of flu.

More information on the 2020-2021 flu season burden estimates is available [here](#).

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